Newly Added Claims Claims 32 - 51

- 32. A method of preparing an electromagnetically conductive textile fabric, wherein the fabric comprises conductive fibers creating a conductivity gradient through the thickness of the fabric, and wherein the fabric is selected from the group consisting of woven, knitted and nonwoven fabrics, comprising the steps of:
 - (a) forming a fabric selected from the group consisting of (i) a fabric in which the surface area of the fibers per unit volume varies through the thickness of the fabric; and (ii) a fabric containing first and second fibers, wherein the first and second fibers have different susceptibilities to being coated by a conductive coating, and wherein the relative concentration of the first and second fibers varies through the thickness of the fabric; and
 - (b) applying a conductive coating to fibers in the fabric, thereby creating a conductivity gradient through the thickness of the fabric.
- 33. The method of Claim 32, wherein the conductive coating is selected from the group consisting of carbon, ferrite, metals and conductive polymers.
- 34. The method of Claim 32, wherein the conductive coating is a conductive polymer.
- 35. The method of Claim 34, wherein the conductive polymer is selected from the group consisting of polypyrrole, polyanaline and derivatives thereof.
- 36. The method of Claim 32, wherein the fabric is knitted.
- 37. The method of Claim 32, wherein the fabric is a felt.
- 38. The method of Claim 32, wherein the fabric comprises a plurality of superimposed webs of different fiber densities, which have been needlepunched to form a unitary construction.
- 39. The method of Claim 32, further comprising step (c) of adding a second coating to fibers of the fabric, wherein the second coating is selected from the group consisting of a poly(vinyl chloride), a poly(vinylidene chloride), a fire retardant, a colorant and a water repellant coating.
- 40. The method of Claim 32, wherein the fabric has a thickness ranging from 40 mils to 4 inches.
- 41. The method of Claim 32, wherein the fabric has a thickness ranging from 100 mils to 1 inch.

- 42. The method of Claim 32, wherein the fabric has a transmission loss through the fabric of greater than 5 dB at 9 GHz, where dB loss=20 log (V_w/V_o) where V_w is the electric field intensity measured through the fabric and V_o is the electric field intensity measured without the fabric.
- 43. The method of Claim 32, wherein the fabric has a transmission loss through the fabric of greater than 15 dB at 9 GHz, where dB loss=20 log (V_w/V_o), where V_w is the electric field intensity measured through the fabric and V_o is the electric field intensity measured without the fabric.
- 44. The method of Claim 32, wherein the conductivity varies from the inner ¼ of fabric thickness of higher conductivity to the outer ¼ of fabric thickness of lower conductivity by a factor of at least 1.5:1.
- 45. The method of Claim 32, wherein the conductivity varies from the inner ¼ of fabric thickness of higher conductivity to the outer ¼ of fabric thickness of lower conductivity by a factor of at least 4:1.
- 46. The method of Claim 32, wherein the fabric comprises fibers selected from the group consisting of silk, wool, cotton, polyester, nylon and acrylic fibers.
- 47. A method of preparing an electromagnetically conductive textile fabric, wherein the fabric comprises conductive fibers creating a conductivity gradient through the thickness of the fabric, and wherein the fabric is selected from the group consisting of woven, knitted and nonwoven fabrics, comprising the steps of:
 - (a) forming a fabric in which the fabric varies through its thickness in a property selected from the group consisting of fiber density, fiber denier and surface area of fiber per unit volume; and
 - (b) applying a conductive coating to the fibers, thereby creating a conductivity gradient through the thickness of the fabric.
- 48. The method of Claim 47, wherein the conductive coating is a conductive polymer selected from the group consisting of polypyrrole, polyanaline and derivatives thereof.
- 49. The method of Claim 47, wherein the fabric comprises a plurality of superimposed webs of different fiber densities, which have been needlepunched to form a unitary construction.

Appendix 3

- 50. The method of Claim 47, wherein the conductivity varies from the inner 1/4 of fabric thickness of higher conductivity to the outer 1/4 of fabric thickness of lower conductivity by a factor of at least 4:1.
- 51. The method of Claim 47, wherein the fabric has a thickness ranging from 100 mils to 1 inch.